

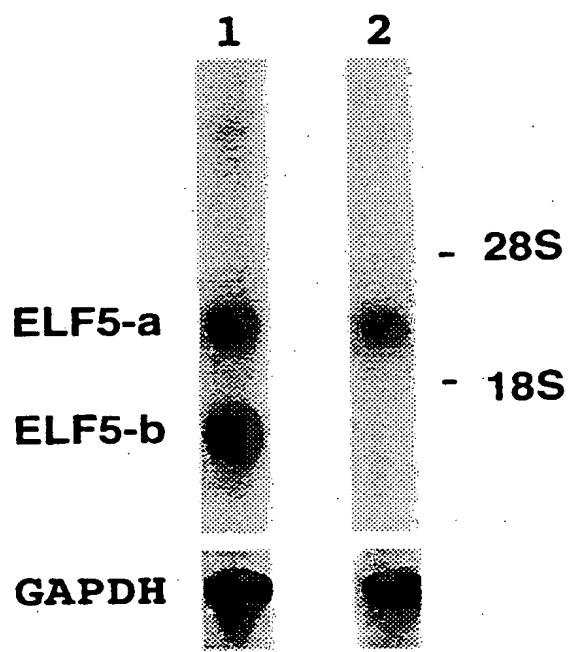
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**Figure 1b**

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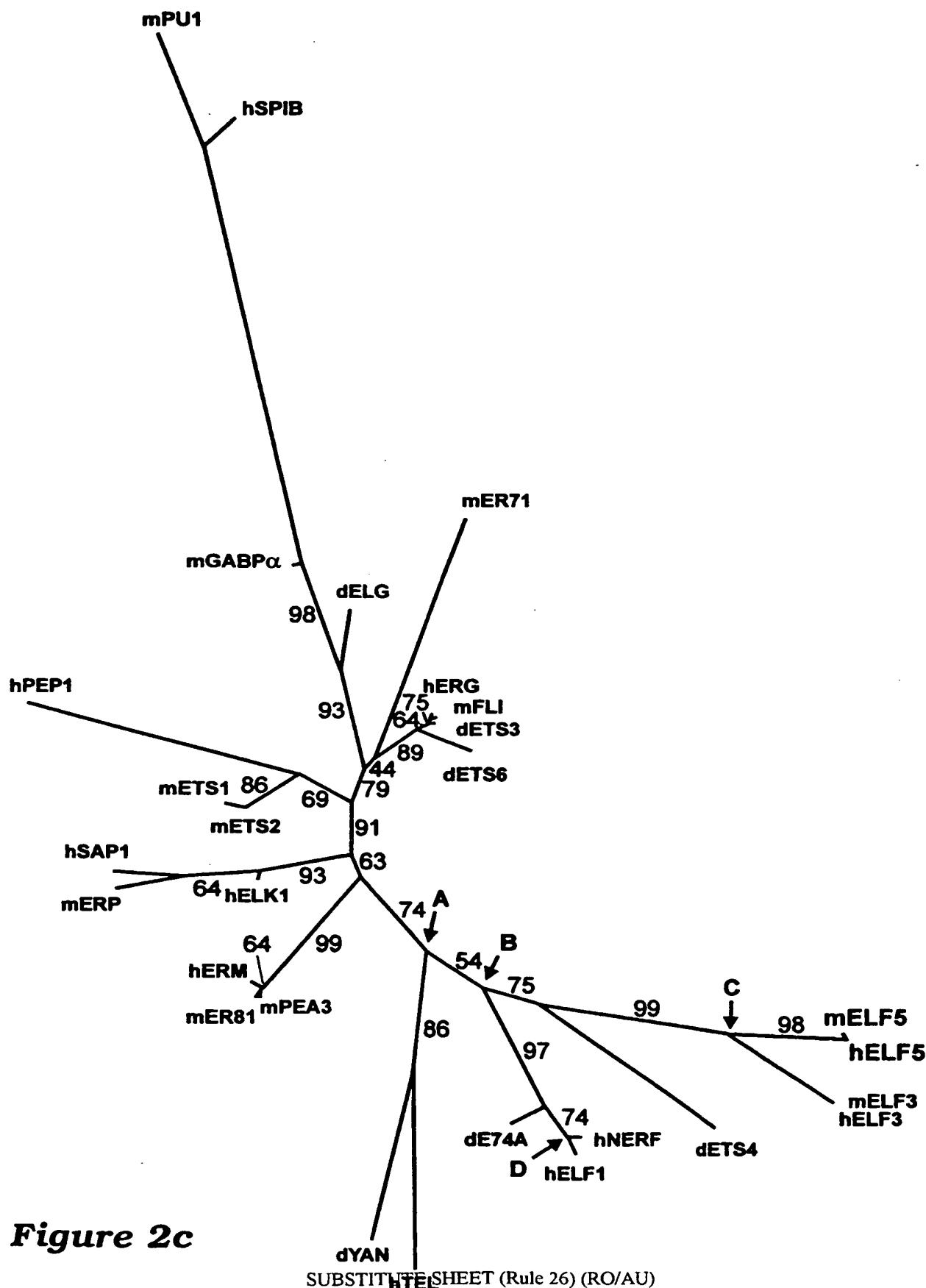
hELF5	MLDSVTHSTFLPNA	SECDP1MSWTDLFSEEEYPAAFEHQ	ACDSYWTSVH	50
mELF5	MLDSVTHSTFLPNA	SECDP1MPWTDLFSEEDYYPAFEHQ	ACDSYWTSVH	50
			CKII	
hELF5	PEYWLKRHVWEWLQFC	CDQYKLDTNCISFCNFNISGLQLCSM	IQEEFFVEA	100
mELF5	PEYWLKRHVWEWLQFC	CDQYKLDANCISFCHENISGLQLCSM	IQEEFFIEA	100
			PKC	
hELF5	AGFCGEYLYFILQNIR	TQGYSFFNDAEESKATIKDYADSNCLKTSGIKSQ		150
mELF5	AGICGEYLYFILQNIR	SQGYSFFNDAEETKTGIKDYADSSCLKTSGIKSQ		150
			CKII	
hELF5	DCHSHSRTSILQSSHIL	WEFVRDLILSPEENCGILEWEDEQGIFFRVKSEA		200
mELF5	DCHS--RTSILQSSHIL	WEFVRDLILSPEENCGILEWEDEQGIFFRVKSEA		198
			CKII	
hELF5	LAKMWGQRKKNDRM	TYEKLSRALRYYKTCGILERVDRRLVYKEGKNAHGW		250
mELF5	LAKMWGQRKKNDRM	TYEKLSRALRYYKTRILERVDRRLVYKEGKNAHGW		248
			TP	
hELF5	QEDKL*			255
mELF5	QEEKL*			253

Figure 2a

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	IDENTITY	(8)
hELF5	LWEFVLDLJSPE-ENGILEWEDREQIFRVV--KSEALAKMKGORK-KNDRMTYEKLSRALRYYYKTLERVD--RRLVYKF	100
mELF5	LWEFVLDLJSPE-ENGILEWEDREQIFRVV--KSEALAKMKGORK-KNDRMTYEKLSRALRYYYKTRILERVD--RRLVYKF	98
hELF3	LWEFIRDILJHPE-LNEGILMKWENRHEGVFKFL--RSEAVAQLWQOKK-KNSNMTYEKLSRALRYYYKREILERVD-GRLVYKF	67
mELF3	LWEFIRDILJHPE-LNEGILMKWENRHEGVFKFL--RSEAVAQLWQOKK-KNSNMTYEKLSRALRYYYKREILERVD-GRLVYKF	67
hNERF	LWEFIDLJLQDKN-TCPRYIKWTQREKGIFKLV--DSKAVSKLWQGKH-KNPDMNYETMGRALRYYYQRGILAKVE-GRLVYKF	49
detS4	LWQFLKELIJLQDPO-VNGTAIRWIDRSKGIFKIE--DSVRVAKLWGRK-NRPAMNYDKLSRSIROYYKGIMKKTERSQRLVYKF	48
de74A	LWEFFLKIJLQDRE-YCPRFIKWTNREKGIFKLV--DSKAVSRLWGMHK-NKPDMNYETMGRALRYYYQRGILAKVD-GRLVYHF	48
hELF1	LWEFFLLJLQDKA-TCPKYIKWTQREKGIFKLV--DSKAVSRLWQGKH-KNPDMNYETMGRALRYYYQRGILAKVE-GRLVYKF	46
hELK1	LWQFLLQJLIREQ--GNIGHIISWTSRDGGEFKLV--DAEFEVARLWGLRK-NKTNNMYDKLSRALRYYYKIMQKVA-GERYVYKF	46
hTEL	LWQFLVQLLSDS--RYENFIRWEDKESKIFRIV--DPNGLARLWGNHK-NRTNMTYEKMSRALRHYKKLNIRKEP-GORLILFRF	44
hERM	LWQFLVLLDDP--ANAHFIATWGR-GMEEFKLI-EPEEVARRWGIQK-NRPAMNYDKLSRSRLRYYYKIMQKVA-GERYVYKF	44
mER81	LWQFLVLLDDP--SNSHFIATWGR-GMEEFKLI-EPEEVARRWGIQK-NRPAMNYDKLSRSRLRYYYKIMQKVA-GERYVYKF	44
mPEA3	LWQFLVALDDP--TNAHFIATWGR-GMEEFKLI-EPEEVARRWGIQK-NRPAMNYDKLSRSRLRYYYKIMQKVA-GERYVYKF	44
mGABP <sup>a</sup>	LWQFLLELLTDK--DARDCISWVGDEG-EFKLN--OPELVAOKWQORK-NKPTMNYEKLSRALRYYYDGMICKYQ-GKRFVYKF	44
mERP	LWQFLLHLIDQ--KHEHLICWTSNDG-EFKL--KAEFEVAKLWGLRK-NKTNNNYDKLSRALRYYYDKNIMIKVH-GQKFVYKF	42
detS6	LWQFLLELLADS--SNANALISWEGQSG-EFRLL--DPDEVARRWGERK-AKPNNMYDKLSRALRYYYDKNIMIKVH-GKRYAYKF	42
mPU1	LWQFLLDLIRSG--DMKDSIWWVOKDKGTFQFSSKHKEARLAHRWGIQGNRKMTYQKMARLRYNGKTEVKKVH--KKLTYQF	42
hPE1	LWHFILLELJQKE--EFRHVIAWQGEYEFVIK--DPDEVARLWGRK-CKPQMNYYDKLSRALRYYYNKRILHKTG-GKRFYTKF	42
hSAP1	LWQFLLQJLQK--QNKHMICWTSNDG-QFKL--QAEFEVARLWGLRK-NKPQMNYYDKLSRALRYYYNKRILHKTG-GKRFYTKF	42
hSP1B	LWQFLLQJLITRG--DMRECUVWWVEPAGVFOFSSKHKELLARRWQOKGNKRMTYQKLAIRNAYKTEIRVK--RKLTYQF	42
dYAN	LWDFLQQLNDRNQKSYSDLIAWKCRDGVFKIV--DPAGLAKLWQIQL--NHLSMNYDKMSRALRYYYRNILRKVQ--GERHCVQF	41
hERG	LWQFLLELLSDS--SNSSCITWEGTNG-EFKMT--DPDEVARRWGERK-SKPNNMYDKLSRALRYYYDKNIMIKVH-GKRYAYKF	41
mFL11	LWQFLLELLSDS--ANASCIWEGTNG-EFKMT--DPDEVARRWGERK-SKPNNMYDKLSRALRYYYDKNIMIKVH-GKRYAYKF	41
deLG	LWQFLLELLDC--EHTDVIEWGTGEG-EFKLT--DPDRVARLWGERK-SKPNNMYDKLSRALR--	40
detS3	LWQFLLELLSDS--NNASCITWEGTNG-EFKLT--DPDEVARRWGERK-SKPNNMYDKLSRALR--	39
mET51	LWQFLLELLTDK--SCQSFISWTGDGW-EFKLS--DPDEVARRWGERK-NKPKNMYEKLSRGCLRYYDKNIMIKTA-GKRYVYRF	37
mET52	LWQFLLELLSDK--SCQSFISWTGDGW-EFKLA--DPDEVARRWGERK-NKPKNMYEKLSRGCLRYYDKNIMIKTS-GKRYVYRF	37
mER71	LWQFLKLQDG--ARSSCIRWTGNSR-EFQLC--DPKEVARLWGERK-RKPGMNYEKLSRGCLRYYRRDIVLKSG-GRKYTYRF	36
consensus	LWQFLLLD 1W FK VAR WG K P M NY KLSR LRYY I K GR Y F	

Figure 2b



**Figure 2c**

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		Identity (%)
hES5	A-SFCDP1-MSWTDLFSNEEEYYPAPEHQTAQDSYWTSHPEYWTKRVHWWEMLQFCCDOYKLDI-NCIS-FCNFNISGLQLCMSMTQEEFVEAG-FCGEYLFLQNLIRT 100	
meEF5	A-SECDPL-MPWTDLFSNEDYYFAFEHOTACDSYWTSHPEYWTKRVHWWEMLQFCCDOYKLDI-NCIS-FCHFNISGLQLCMSMTQEEFIEAG-ICGEYLFLQNLIRS 93	
hEFG	E-SNPMLYN-SYMDEK-NGPPENMTTNERVIIIVPA-DPTLWSTDVRQNLWAVKEYGLPDVN-ILLFQ--NIDGKELKCMKTDFFQLTPSYNAIDLILLSHLYLRE 26	
hEF3	A-SVP-PAATFGADDLVLTLSNQMSLEGTEKASWLGEQPFWSKTOQYLDWISYQEVKNKYDA-SAID-FSRCMDGATLNCNAEELRLVFG-PLGDQLHQAQLRDLTS 23	
hEL	PESPV-PSYASSTPLHVPVRAILRMEEDSIRLPAHLRLOPIYWSRDVAQWLKWAENEFSLRO-IDSNTFE-MN--GKALLLTKEDFRYRSP-HSGDVLYELGLHIKQ 22	
hGPBPa	ITIISDETSEQVTRWAAALEGYFK-EQERLGIPY---DPIQWSTDQVLHWVWVMKEFSMTDIDLTTL---NISGRELCANTHEEFNQKLPRDPGNIFWTHLQLLKE 22	
hES1	PLITPSSKEMMSQALKATEFSGFTK-EQQRIGIPI---DPROWTEKVRDWWMVAWNEFSLKGVDFOQ-FC-MN--GAALCALGKDCFCLEAPDFVGDIWHEHLEILQK 22	
hES2	PLITPSSKAVMSQALKATEFSGFKK-EQRRJGIPK---NPWLWSEQVQWMLJWATNEFSLVNVNLQR-FG-MN--GOMLCLNUGKERFLEAPDFVGDIWHEHLEOMIK 21	
hAN	LNSLN-PGIWSDVLWRCPAPSSQLAELKTQLPPLSPDPRILWSREDVLYFLRCVREFDLPK-LDFDLFQ-MN--GKALCLLTRADEFGRCP-GAGDVLYHNVLQMLII 20	
dPOINT	PPLTPGTNRKVNEVLKASFASWEK-EYQKCNITK---DPREWTEEHVYIYWLWAKNEFSLVSMNLDP-FYKMK--GRAMVDLGKEKFIAITPPFTGDILWEHLDIQLK 19	
coQ	-SEsus P S MS F FKK E QRL IP DP WS HV WL WAVKEFSL NLI F MN GKELC L KEDFLER P F GDILWEHLE LRK	

Figure 2d

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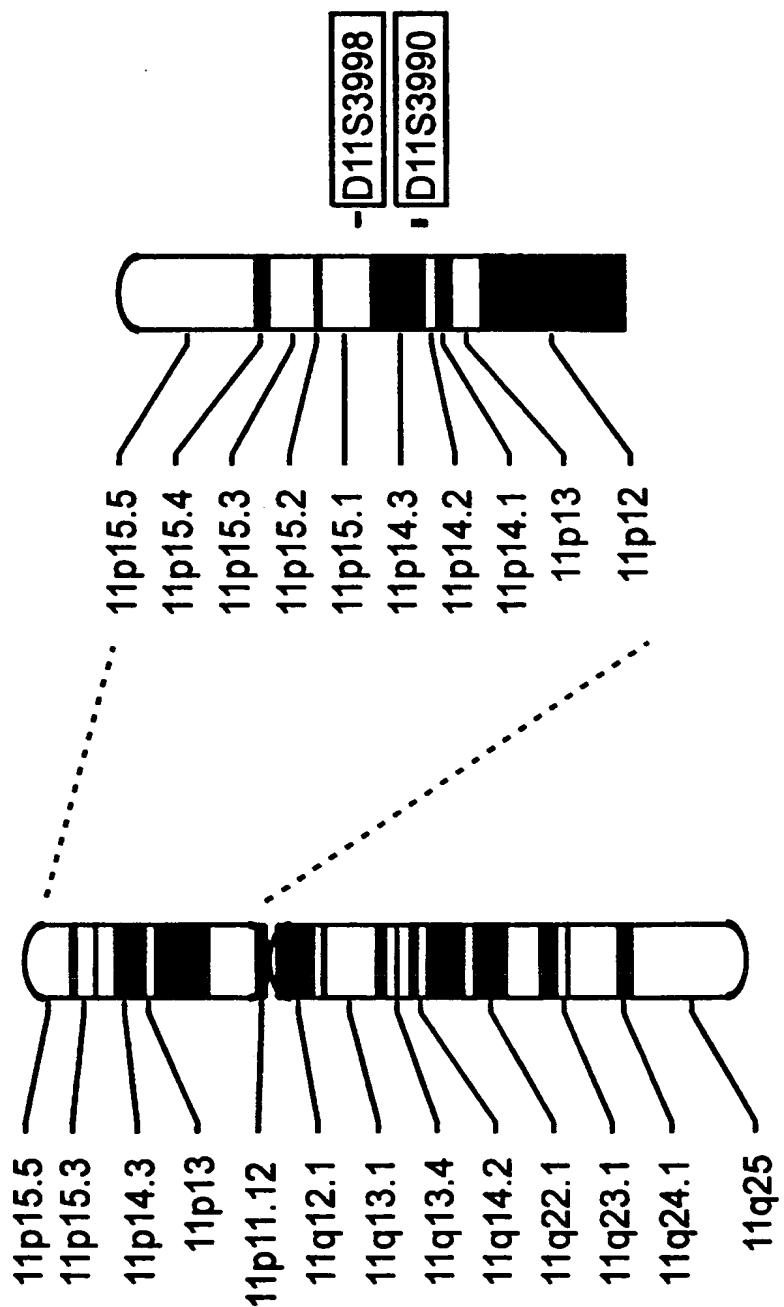


Figure 3

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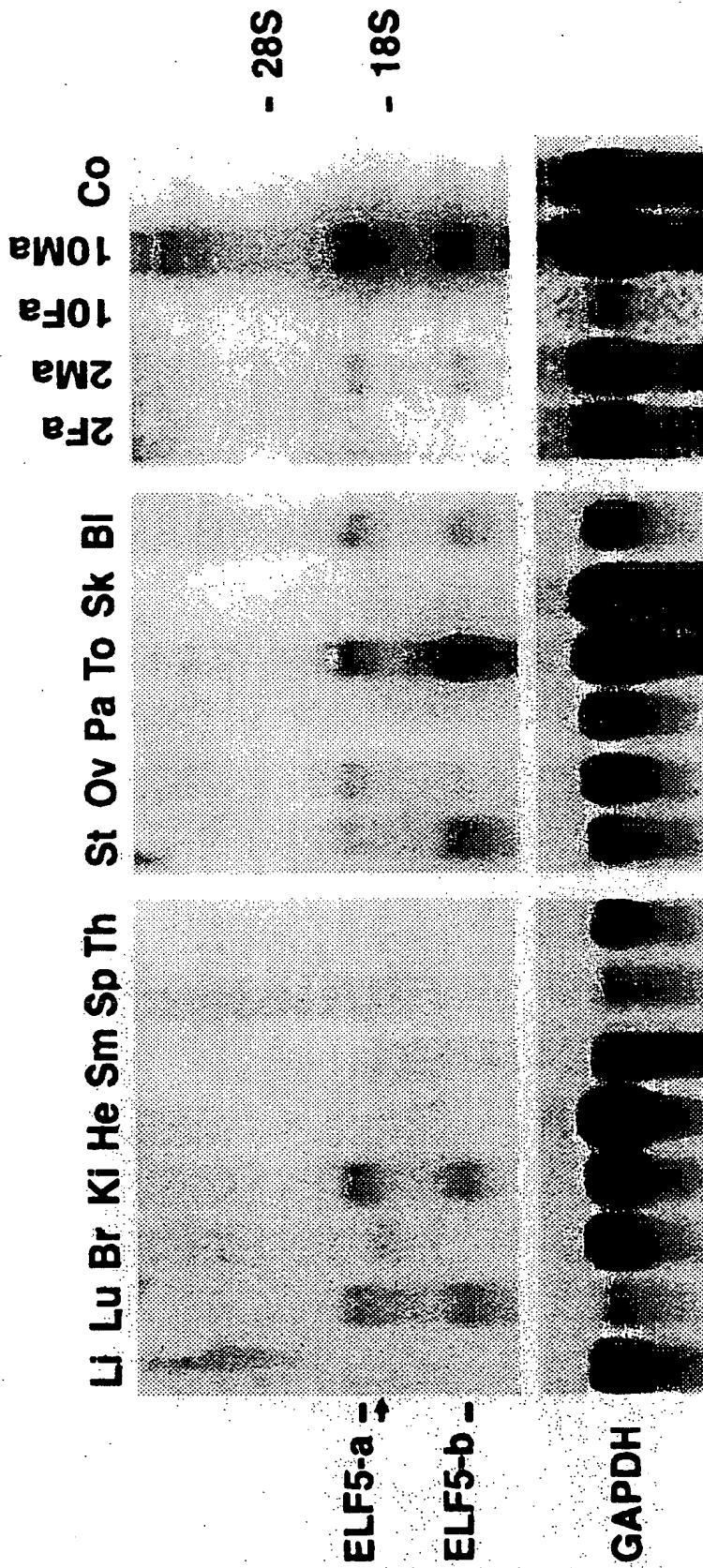


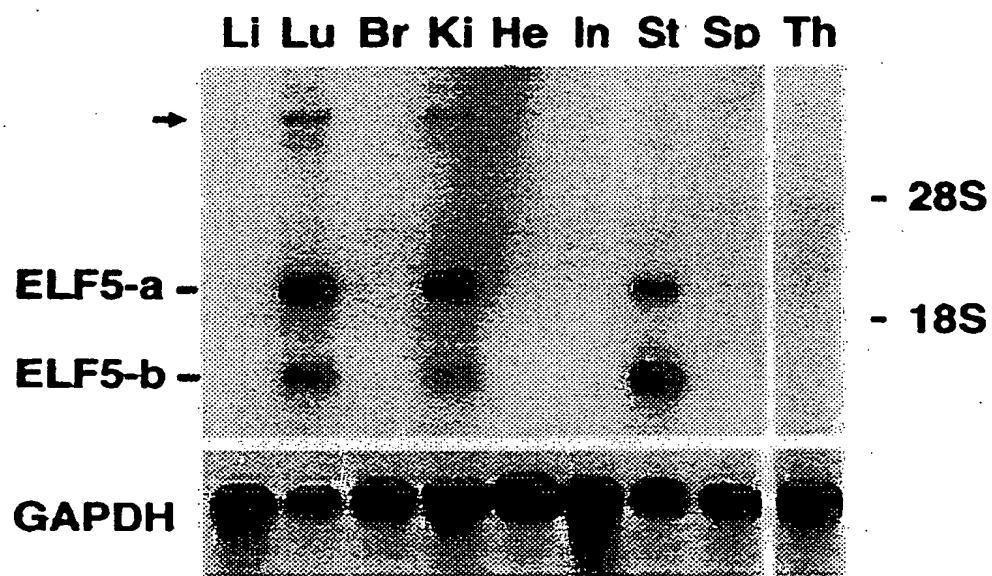
Figure 4a

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**Figure 4b**

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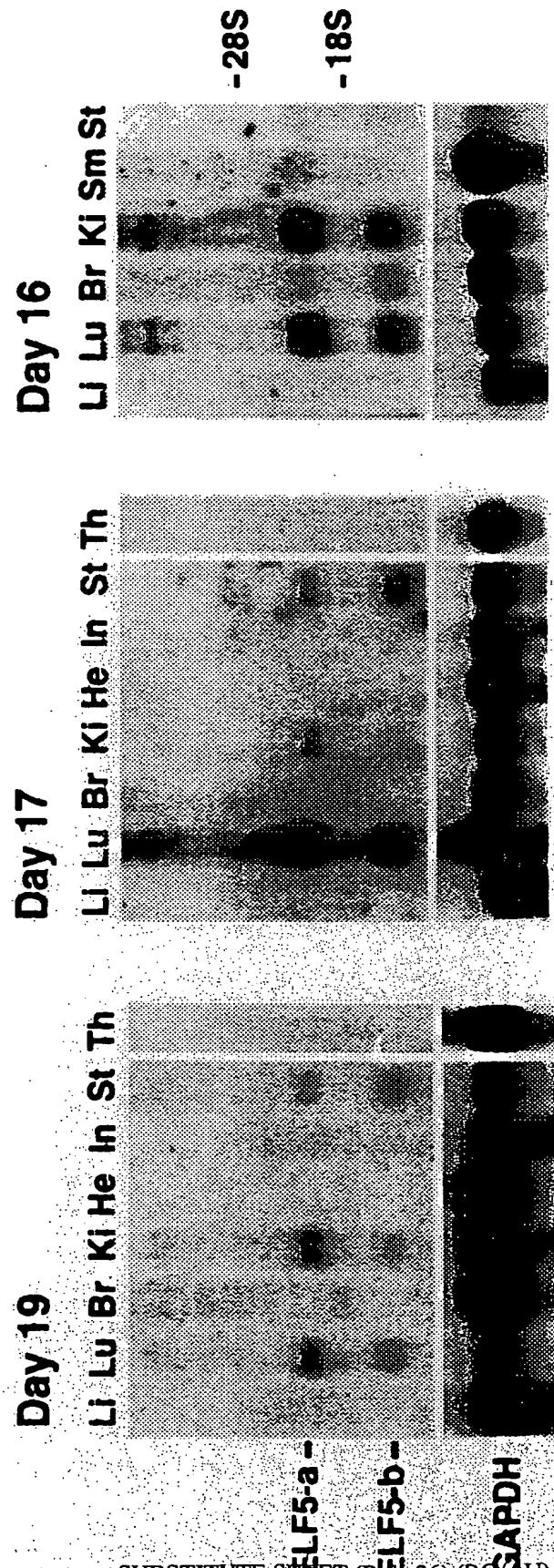


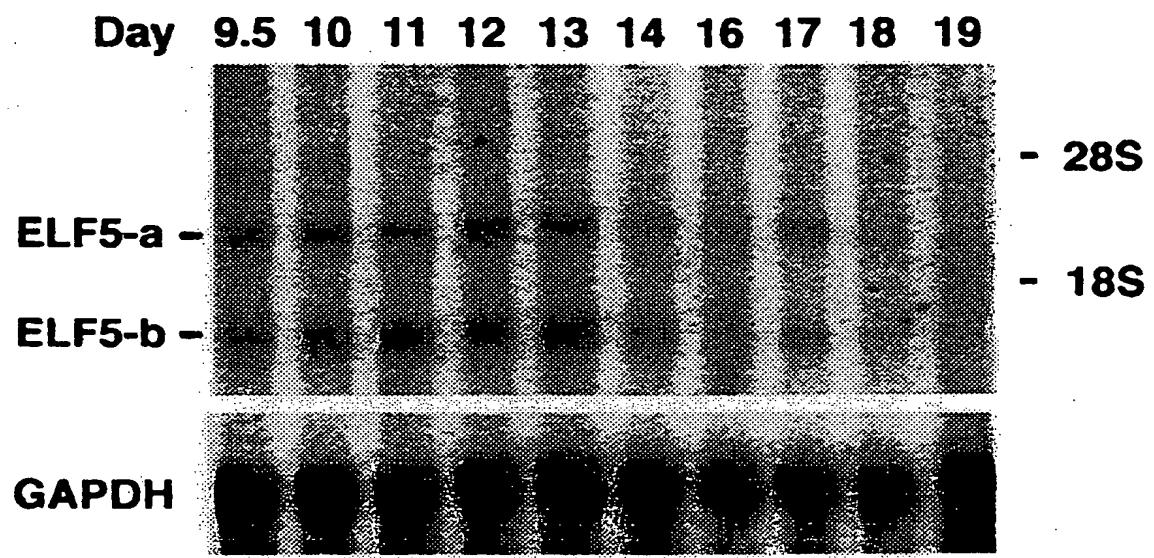
Figure 4c

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*Figure 4d*

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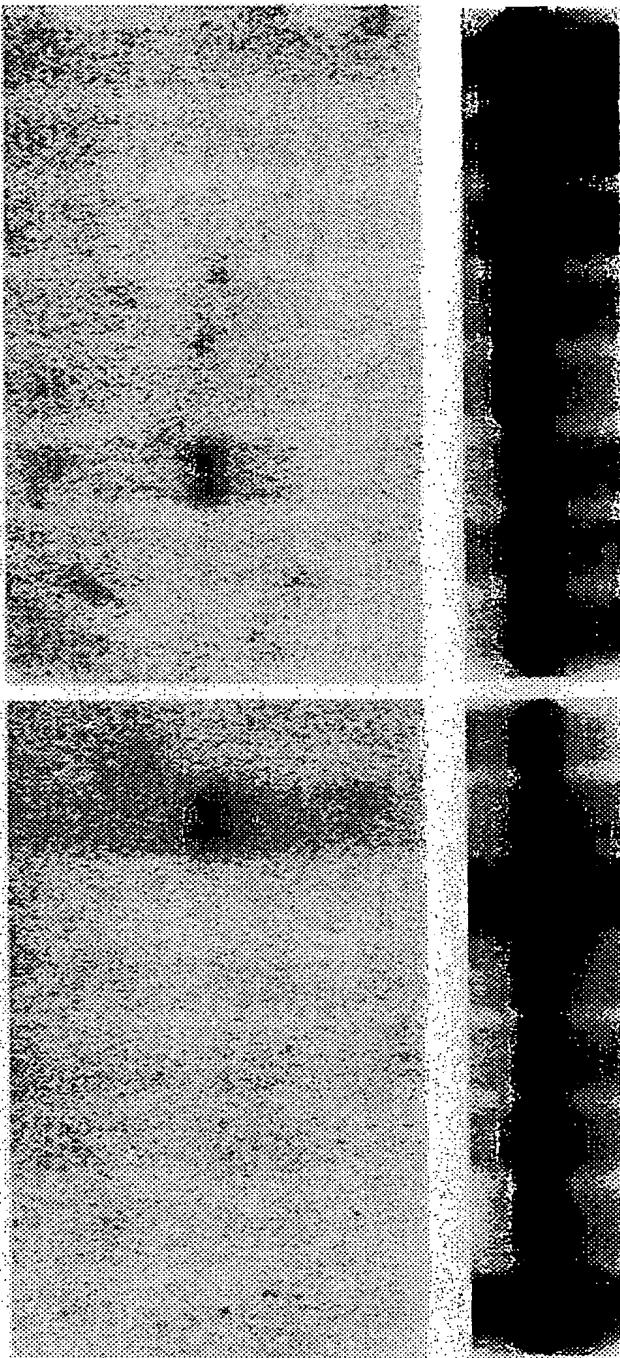
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H Br PI Lu Li Sk Ki Pa Sp Th Pr Te Ov Sm Co PBL kb

- 4.4

- 2.4

- 1.35



ELF5  
SUBSTITUTE SHEET (Rule 26) (RO/AU)  
β-ACTIN

Figure 5a

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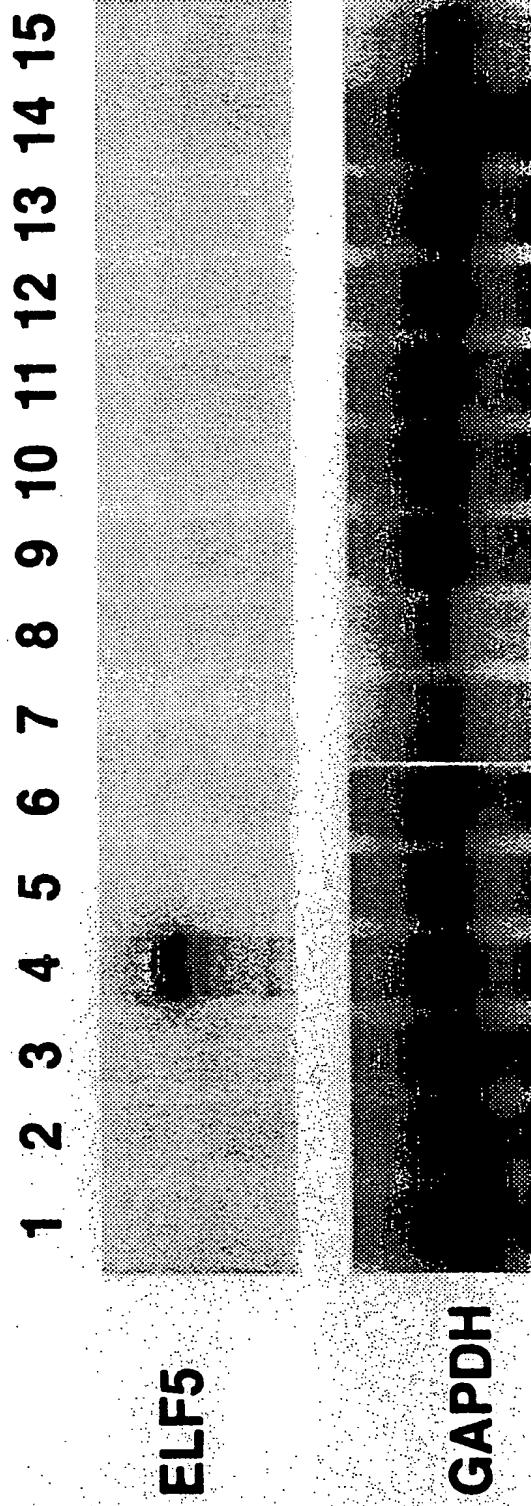


Figure 5b

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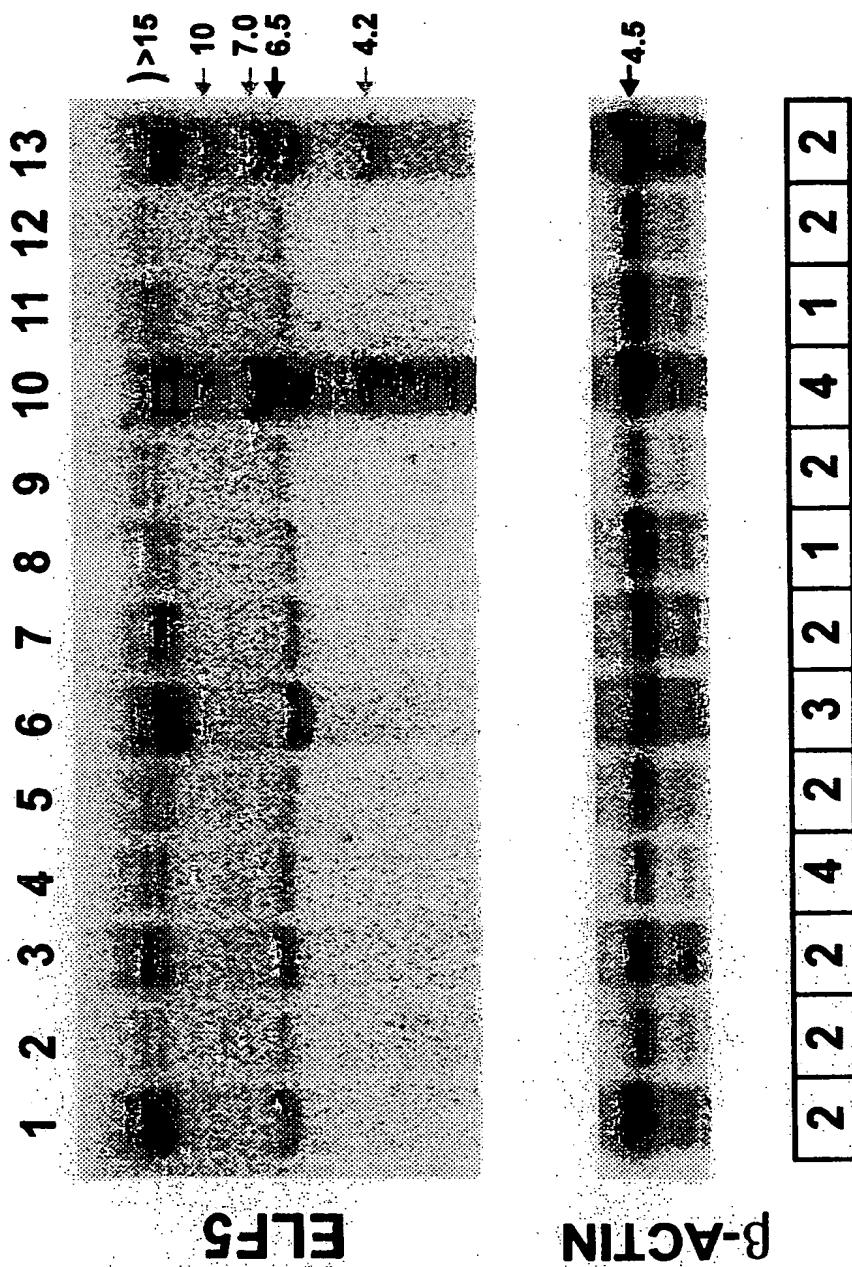


Figure 5c

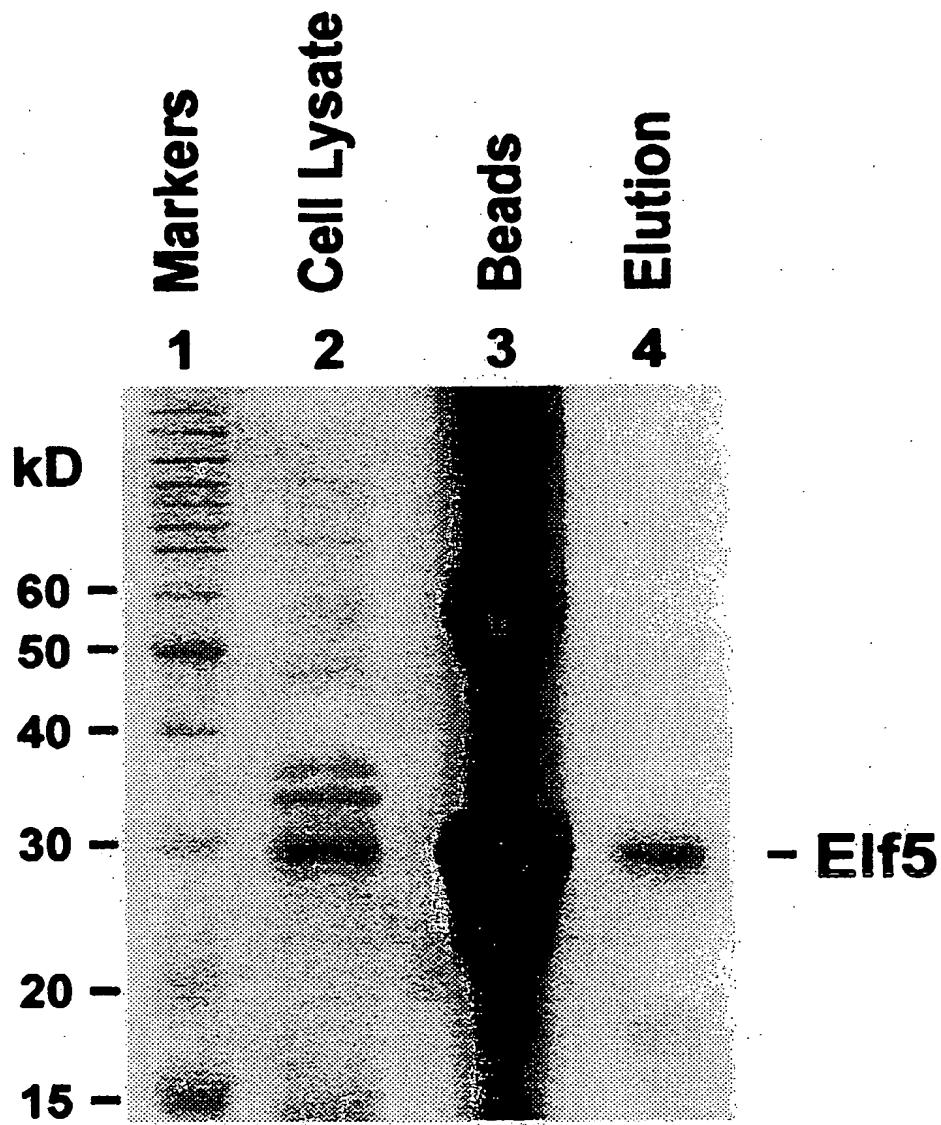
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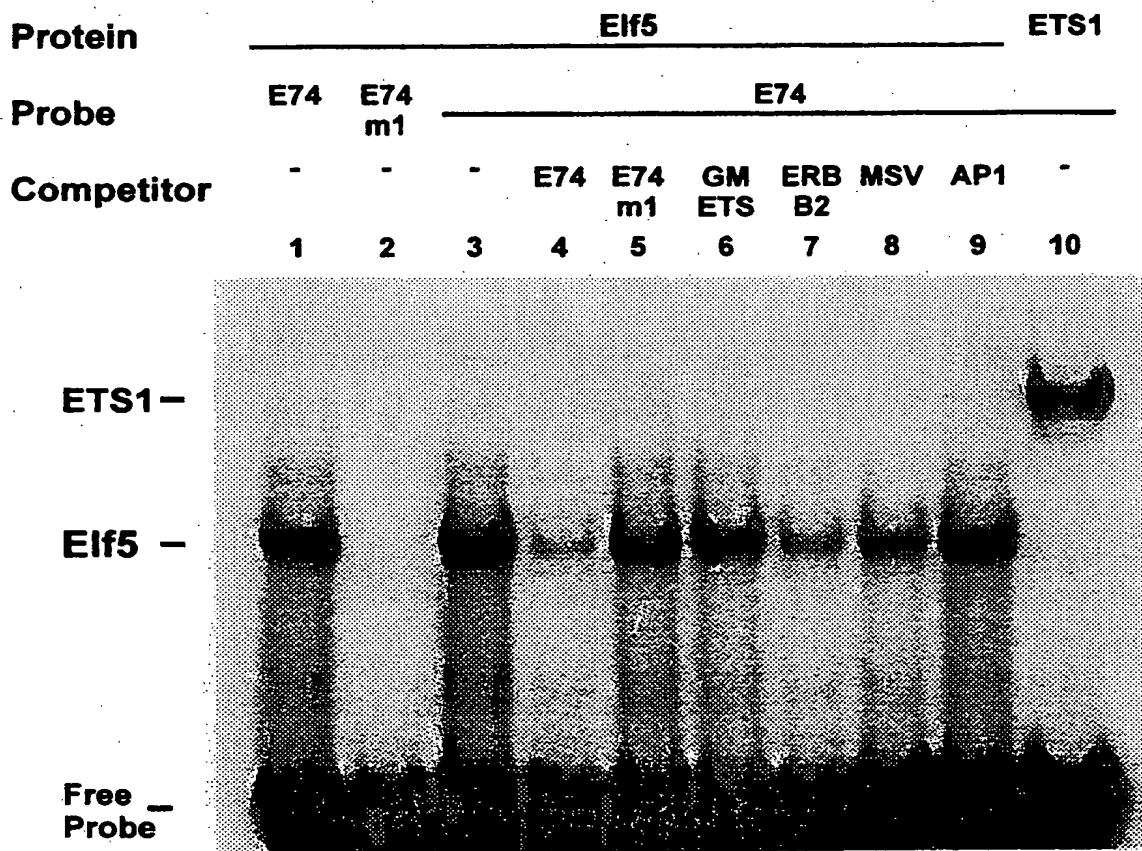
**Figure 6a**

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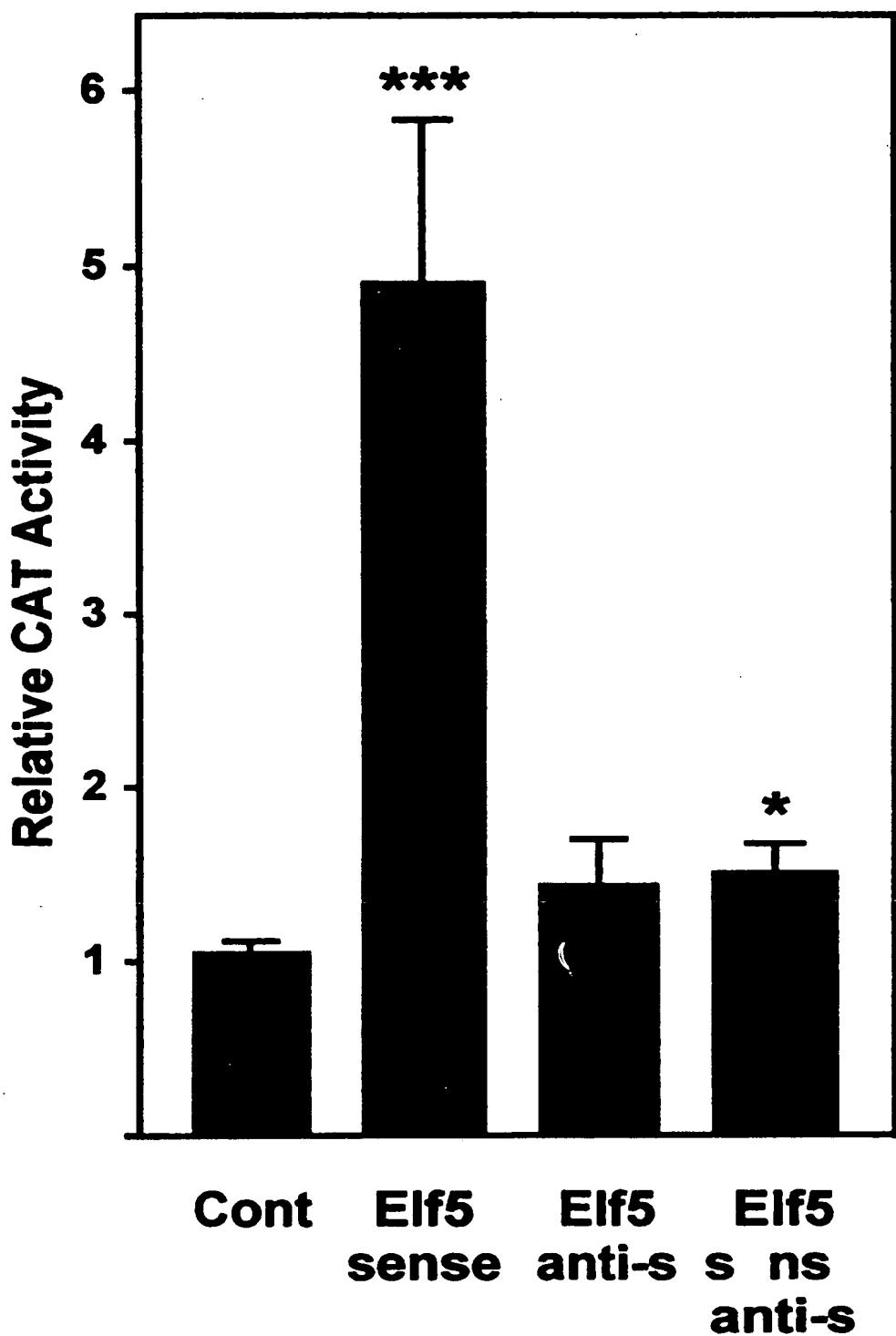
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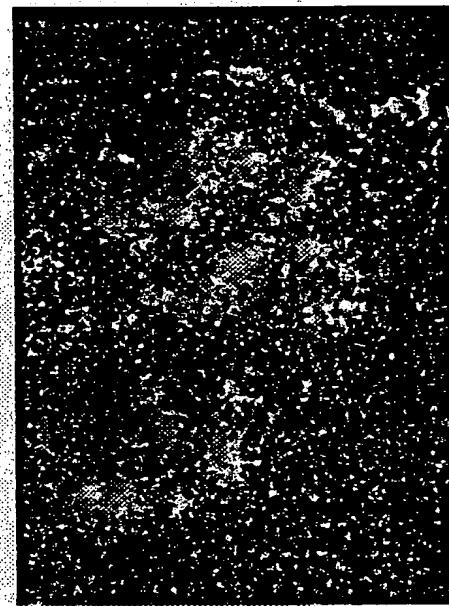


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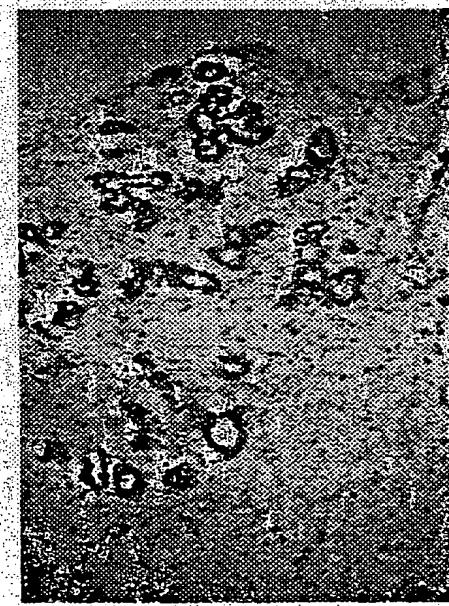


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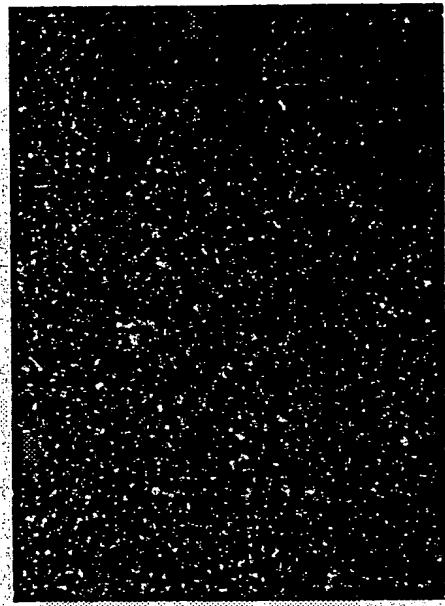
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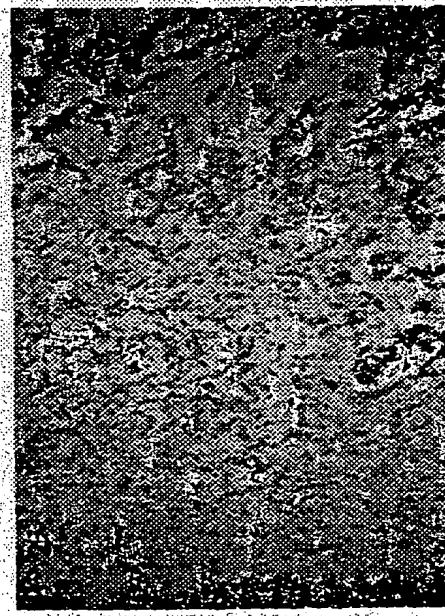
ELF5



STAIN



ELF5



STAIN

NORMAL

NEOPLASTIC

Figure 8